GK Fortune Trading Company

Govinda , No.22 , Kaverinagar 2nd cross ,
Kattriguppe , BSK 3rd Stage , Bangalore – 560085.
M| +91-9632003716 +91-9886973716

GSTIN NO : 29BXIPR2073J1ZY

WHOM SO IT MAY CONCERN

This is to inform that , we have supplied ORIENT ELECTRIC make below mentioned Materials to M/s SURAKSHA ELECTRICALS vide PO no. SE/GEN/PO/03/2022-23 dt 11.06.2022 to the BBMP project at YELAHANKA region.

1) LSFS-090-C – 900 NO (90W STREET LIGHT ORIENT MAKE)
2) LSFS-150-C – 380 NO (150W STREET LIGHT ORIENT MAKE)

We had supplied these electrical products warranty of 2 year against manufacturing defects, applicable as repaire or product replacement.

For GK Fortune Trading Company

For GK FORTUNE TRADING COMPANY
Authorised Signatory

Thanks & Regards
Naresha Ganesh

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byataravanapura, Bangalore-92

CK BIRLA GROUP | orient electric
switch to smart

C-130, Sector-63, Noida-201301, UP, India
www.orientelectric.com

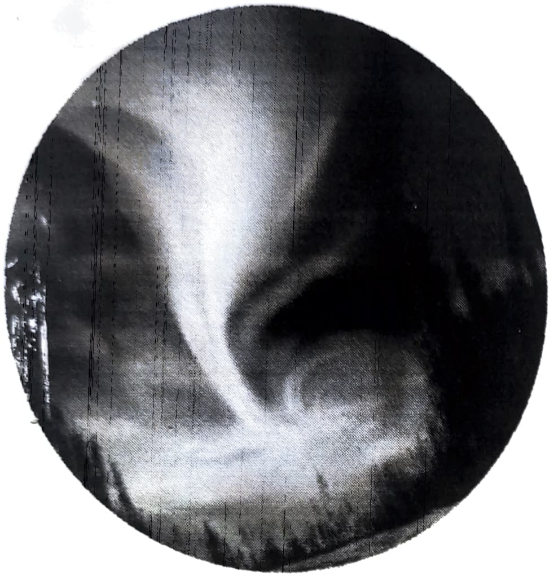
Electrical & Photometric Test Report

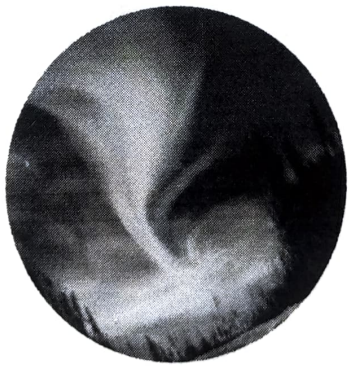
Test Report No.	PLTR-0322-017	Date of Testing	28-03-2022
Product Code	LSFS-090-C-PC	Sample No.	PLTS-0322-017
Testing Lab.	ORIENT	Brand	ORIENT
Test Details:		Document References/Standard:	
Light intensity distribution Measurement Total Lumen output Measurement		IES-LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products IS : 16106 : 2012 Method of Electrical and Photometric Measurements of Solid State Lighting (LED) Products	
Equipment used			
Measurement of uncertainty	±4.6%	Photometric Distance	7.1 m
Ambient Temperature	(25±2) ºC	Relative Humidity	52%
Test voltage (V)	240 V ac	Frequency (Hz)	50
Stabilization Time	60 min	Total operating time	90 min
Rated Performance Parameters			
Rated Wattage	90 W	Maximum Input Current	0.414 A
CCT	5700k	CRI	≥ 70
Measured Electrical Parameters			
Supply Voltage (V)	240 V	Input Current (A)	0.389 A
Total Power (W)	90.27 W	Power Factor	0.967
Photometric Measurement Data			
Total Measured Lumen (lm)	9406.13	System Efficacy (lm/W)	104.2
Note: Always consider 10% tolerance in measured data due to subject of environmental effect, measuring equipment & component tolerances.			

Tested by:	Checked by:	Approved by:
CC	RP	KKK
28-03-22	28-03-22	28-03-22

Executive Engineer
Electrical Division
Yelahanka Zone, BBMP
Bangalore-92

C-130, Sector-63, Noida-201301, UP, India
www.orientelectric.com





Product Name:
FIESTA PLUS LED STREET LIGHT
150W 5700K
LSFS-150-C

(Photometric & Electrical Measurement (As per IES LM 79-08 / IS 16106:2012)

Issued by: Orient Electric

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byataravanapura, Bangalore-92

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www.orientelectric.com

Electrical & Photometric Test Report

Test Report No.	PLTR-1119-051	Date of Testing	26-11-19
Product Code	LSFS-150-C	Sample No.	PLTS-1119-051
Testing Lab.	ORIENT	Brand	ORIENT
Test Details:		Document References/Standard:	
Light intensity distribution Measurement Total Lumen output Measurement		IES-LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products IS : 16106 : 2012 Method of Electrical and Photometric Measurements of Solid State Lighting (LED) Products	
Measurement of uncertainty	±4.6%	Photometric Distance	7.1m
Ambient Temperature	(25±2) ºC	Relative Humidity	52%
Test voltage (V)	240 V ac	Frequency (Hz)	50
Stabilization Time	60 min	Total operating time	90 min
Rated Performance Parameters			
Rated Wattage	150W	Maximum Input Current	0.69 A
CCT	5700K	CRI	≥ 70
Measured Electrical Parameters			
Supply Voltage (V)	240 V	Input Current (A)	0.63 A
Total Power (W)	149.3W	Power Factor	0.982
Photometric Measurement Data			
Total Measured Lumen (lm)	15190.41	System Efficacy (lm/W)	101.41

Tested by:	Checked by:	Approved by:
DP	RP	KKK
26-11-19	26-11-19	26-11-19

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

QAV Technologies Sdn. Bhd. (616788-U)
116, Lintang Kg Jawa, NFIZ 3,
Taman Perindustrian Bayan Lepas,
Mk 12, 11900, Penang. MALAYSIA.
Tel No: 604 - 6438317 Fax No: 604 - 6438597

PRELIMINARY TEST REPORT

IESNA LM-80-08

Customer	: OSRAM Opto Semiconductors (Malaysia) Sdn. Bhd.
Address	: Bayan Lepas Free Industrial Zone Phase 1, 11900 Bayan Lepas, Penang, Malaysia.
Requestor Name	: Jacqueline Yeap Sang Yee
Product	: LED Light Source
Test Prime	: Samantha Clarice
Received Date	: 23 September 2015
Test Perform Date	: 20 November 2015
Report Number	: QAV-1115-1985
Test Location	: 116, LintangKg.Jawa, FIZ 3, Taman Perindustrian Bayan Lepas, Mk. 12, 11900 Pulau Pinang.

ABSTRACT: This report contains **IESNA LM-80 test result** of **GW P9LTS31.EM** provided by **OSRAM Opto Semiconductors (Malaysia) Sdn Bhd.**

Proprietary Information

The information contained in this document is the property of **QAV Technologies Sdn. Bhd.** Except as specifically authorized in writing by **OSRAM Opto Semiconductors (Malaysia) Sdn. Bhd.**, the holder of this document: (1) shall keep all information contained here in confidential and shall protect same in whole or in part from disclosure and dissemination to all third parties and (2) shall use same for operating and maintenance purposes only.

Prepared by: Samantha Clarice

Date: 22 December 2016

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Kataravanapura, Bangalore-92

1.0 Number of LED light sources tested

- 22 units/board/test tested at actual case temperature 55ºC (nominal 55ºC)
- 22 units/board/test tested at actual case temperature 85ºC (nominal 85ºC)
- 22 units/board/test tested at actual case temperature 105ºC (nominal 105ºC)
- 22 units/board/test tested at actual case temperature 115ºC (nominal 115ºC)

2.0 Description of LED light sources

- GW P9LT31.EM
- CRI 80
- CCT 3500K

3.0 Package Pictures

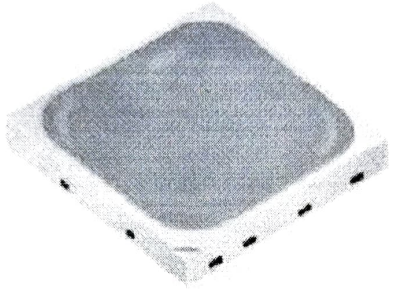


Figure 1: GW P9LT31.EM

4.0 Mechanical Drawing

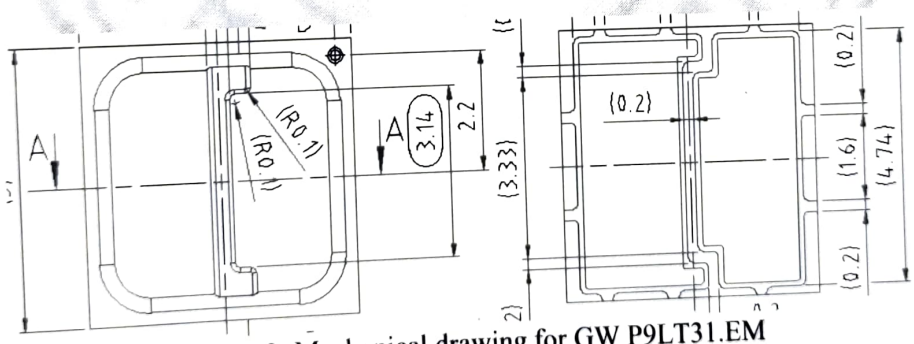
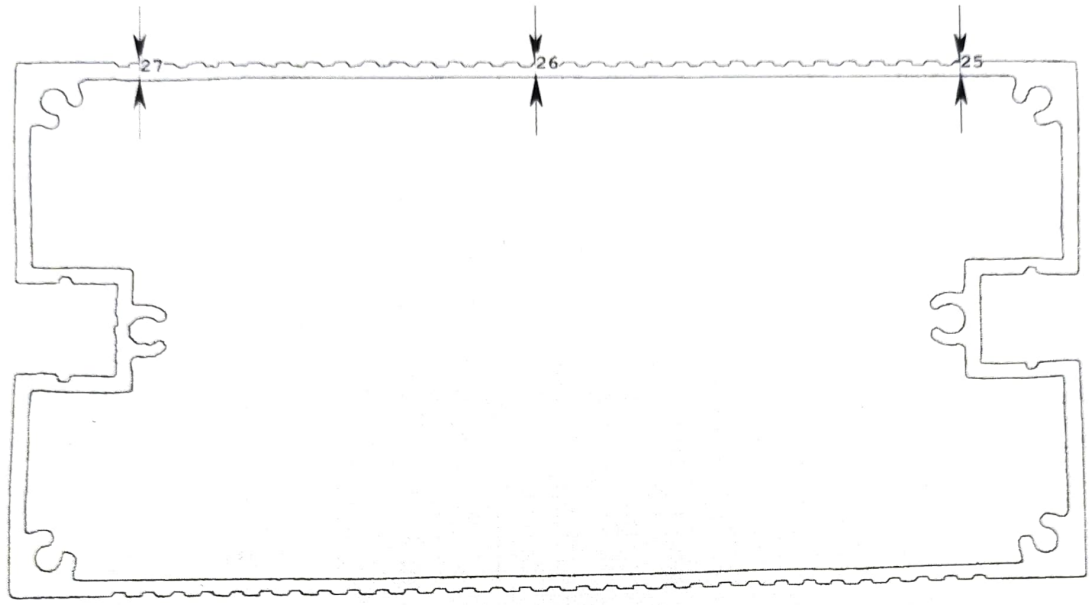


Figure 2: Mechanical drawing for GW P9LT31.EM

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

Profile No. : 25445 Sample : 25445-T01

Acquisition time: 16/03/2022 3:53 PM Report time: 16/03/2022 3:57 PM

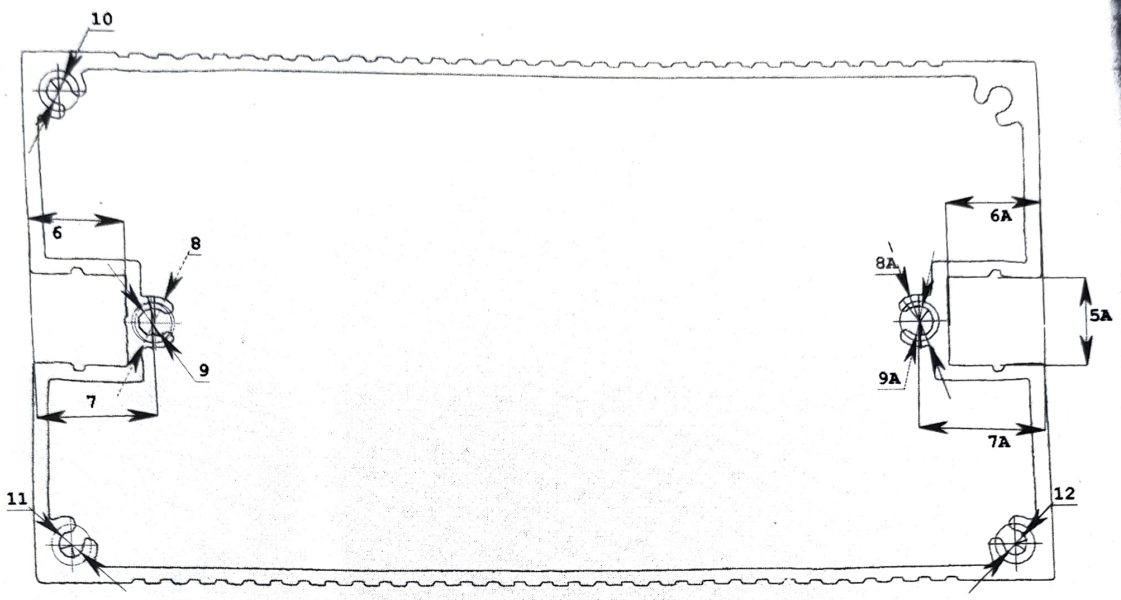


Legend	Parameter	Unit	Value	Nomin.	Min	Max	Dev.
25	Wall thickness M Width	mm	2.20	2.30	2.10	2.50	-0.10
26	Wall thickness M Width	mm	2.21	2.30	2.10	2.50	-0.09
27	Wall thickness M Width	mm	2.43	2.30	2.10	2.50	+0.13

Executive Engineer
Electrical Division
Yelahanka Zone BESCOM
Byatarayanapura, Bangalore-92

Profile No. : 25445 Sample : 25445-T01

Acquisition time: 16/03/2022 3:53 PM Report time: 16/03/2022 3:57 PM



Legend	Parameter	Unit	Value	Nomin.	Min	Max	Dev.
5A	Lines Distance	mm	12.58	12.50	12.20	12.80	+0.08
6	Lines Distance	mm	13.85	14.00	13.70	14.30	-0.15
6A	Lines Distance	mm	13.91	14.00	13.70	14.30	-0.09
7	Lines Distance	mm	17.54	18.30	--	--	
7A	Lines Distance	mm	18.39	18.30	--	--	
8	Circle M Diameter	mm	7.28	7.50	7.20	7.80	-0.22
8A	Circle M Diameter	mm	7.53	7.50	7.20	7.80	+0.03
9	Circle M Diameter	mm	3.77	4.00	3.70	4.30	-0.23
9A	Circle M Diameter	mm	4.23	4.00	3.70	4.30	+0.23
10	Circle M Diameter	mm	3.57	3.40	3.10	3.70	+0.17
11	Circle M Diameter	mm	3.58	3.40	3.10	3.70	+0.18
12	Circle M Diameter	mm	3.42	3.40	3.10	3.70	+0.02

Executive Engineer
Electrical Division
Yelahanka Zone BBMP

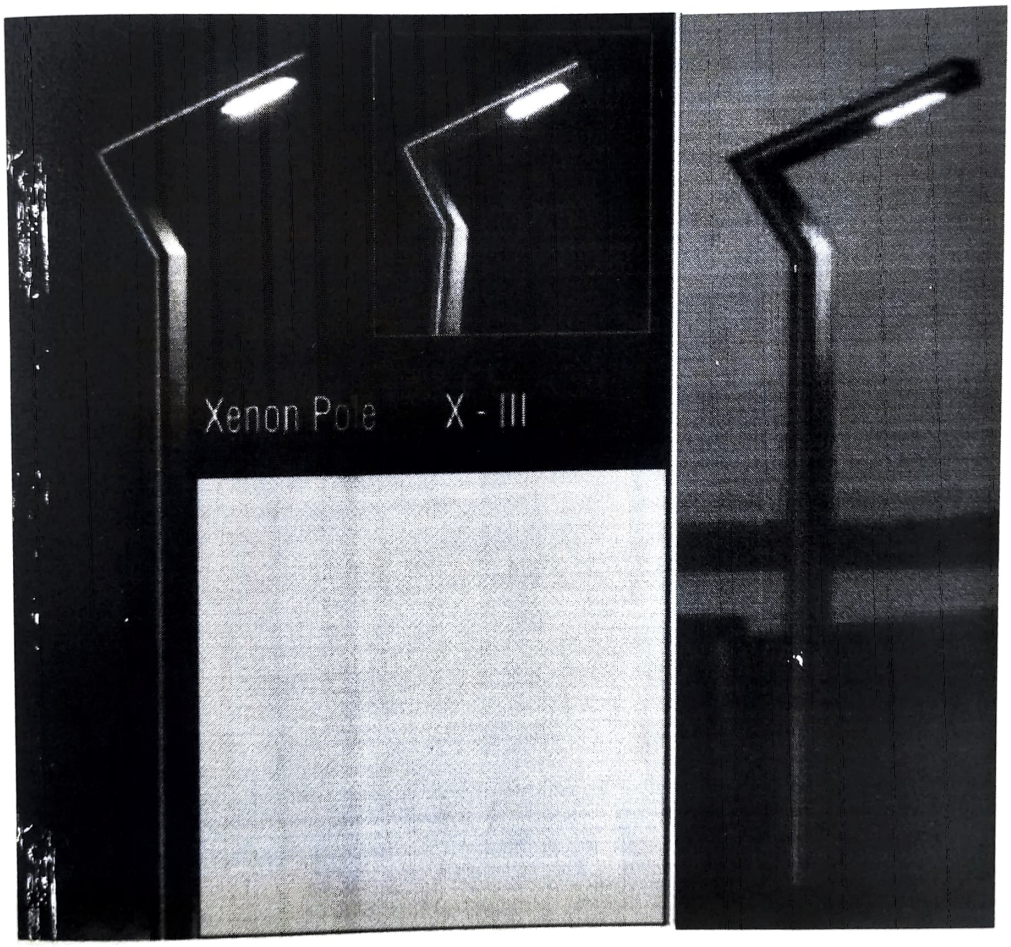
EMERALD
LIGHTING SOLUTION

TYPE TEST CERTIFICATE

Product Name : Bend Aluminium Profile Light Pole

Product Code : XENON POLE X-III BEND

(Electrical Measurement & Photometric as per IS 16106 :2012)



Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

EMERALD LIGHTING SOLUTION

EMERALD
LIGHTING SOLUTION

Electrical & Photometric Test Report

Test Report No	GK/EL/0054	Date Of Testing	20.05.2022
Product Code	XENON POLE X-III BEND	Sample No.	005
Testing Lab	EMERALD LIGHTING	Brand : EMERALD LIGHTING	
Test Details			
Light Intensity Distribution Measurement Total Lumen Output Measurement		IES-LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products. IS: 16106 L 2012 method of Electrical and Photometric Measurements of Solid-State Lighting (LED) Products.	
Equipment used			

Measurement of uncertainty	± 4.6%	Photometric Distance	7.6M
Ambient Temperature	(25±2) ℃	Relative Humidity	52%
Test Voltage	240 V ac	Frequency (Hz)	50 Hz
Stabilization Time	60 min	Total Operating Time	30 min

Rated Performance Parameters

Rated Wattage	36W + 24w	Maximum Input Current	0.417A
CCT	5700K	CRI	>70

Measured Electrical Parameters

Supply Voltage (V)	240V	Input Current (A)	0.407A
Total Power (W)	60W	Power Factor	0.95

Photometric Measurement Data

Total Measured Lumen (lm)	6000	System Efficacy (lm/w)	100.12

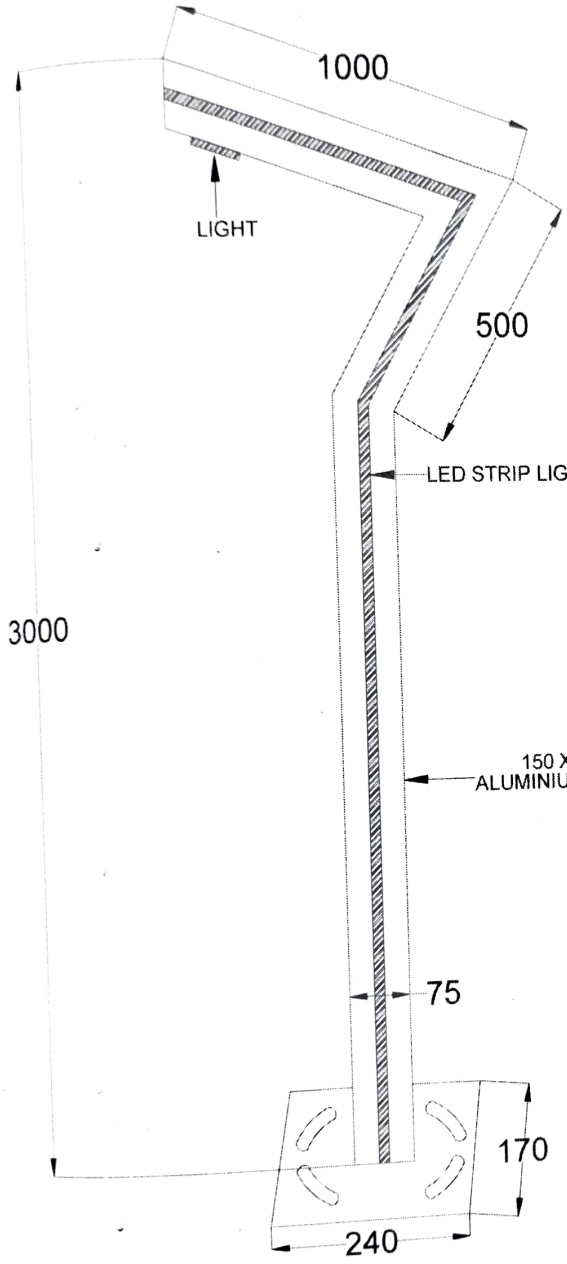
Note: Always Consider 10% tolerance in measured data due to subject of environmental effect, measuring equipment & Component Tolerances.

Tested by:	*Checked by:*	*Approved by:*
SSLE	PHJ	NG
20.05.2022	20.05.2022	20.05.2022

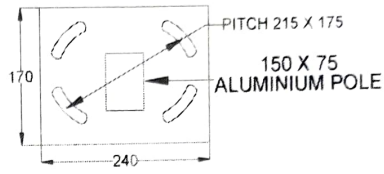
Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Nagavarapalya, Bangalore-92

EMERALD LIGHTING SOLUTION

TITLE : KRISHI 3 MTR POLE

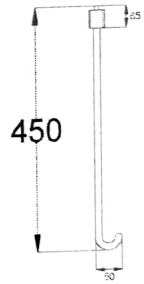


BASE PLATE 240 X 170 X 12



FOUNDATION BOLT FRAME

FOUNDATION BOLT M16X450

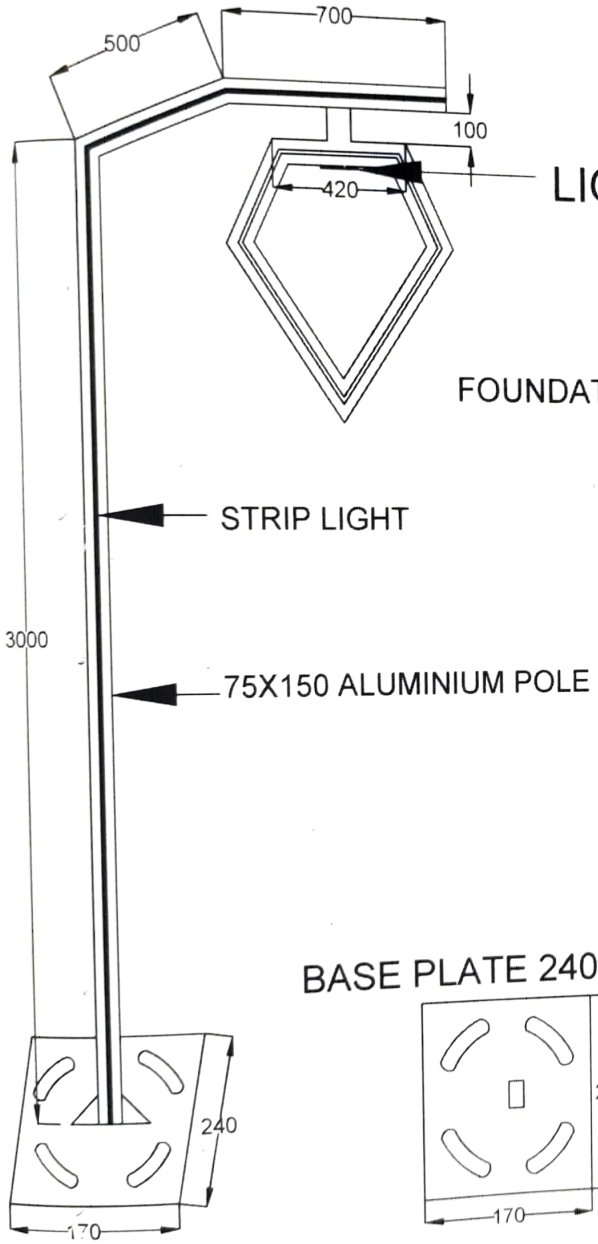


MANUFACTURER	EMERALD LIGHTING SOLUTION			
CLIENT				
PROJECT				
TITLE				
DRAWING NO				
	NAME	SIGN	DATE	
DSNG				
DRAWN				
CHKD				
APPRD				

NOTES -
1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

TITLE : 3 METER ALUMINIUM DECORATE POLE



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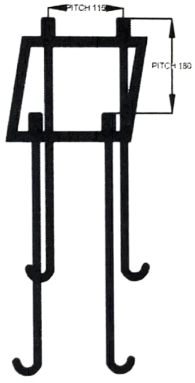
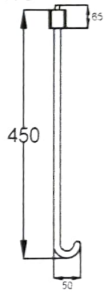


FOUNDATION BOLT M16X450



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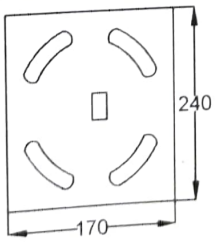
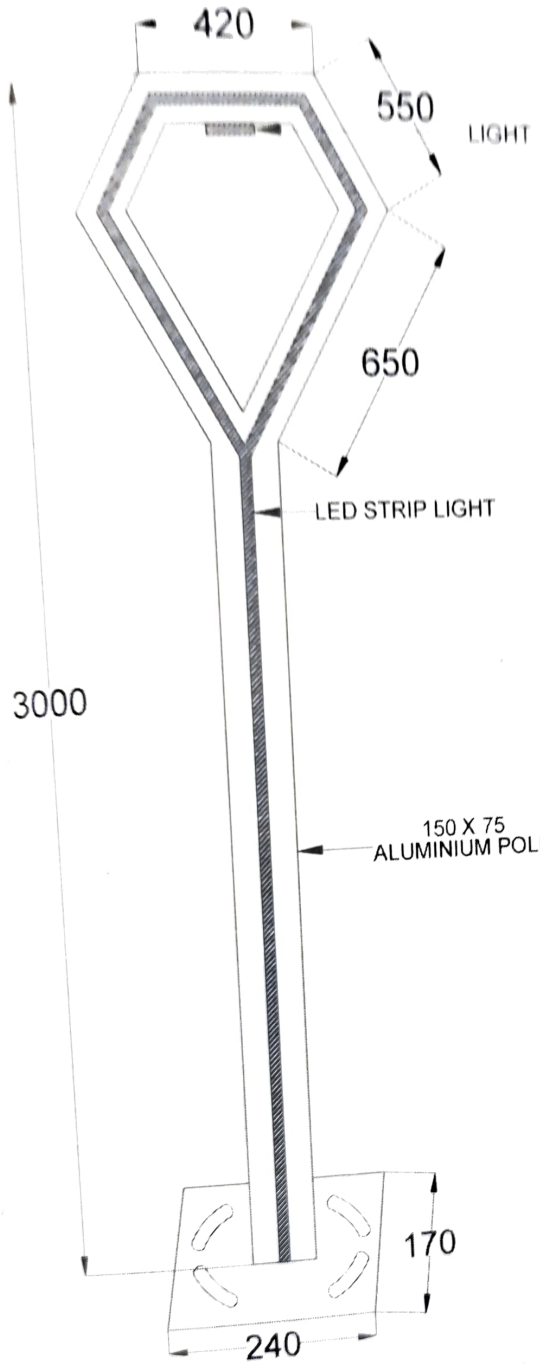


MANUFACTURER	TULIP SYNERGIES			
CLIENT				
PROJECT				
TITLE				
DRAWING NO	06			
	NAME	SIGN	DATE	
DSNG				
DRAWN				
CHKD				
APPRD				

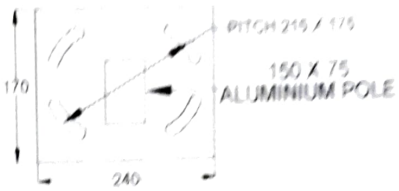
NOTES :-
1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byataravanapura, Bangalore-92

TITLE : XENON 3 MTR POLE



BASE PLATE 240 X 170 X 12



FOUNDATION BOLT FRAME

FOUNDATION BO
M16X450

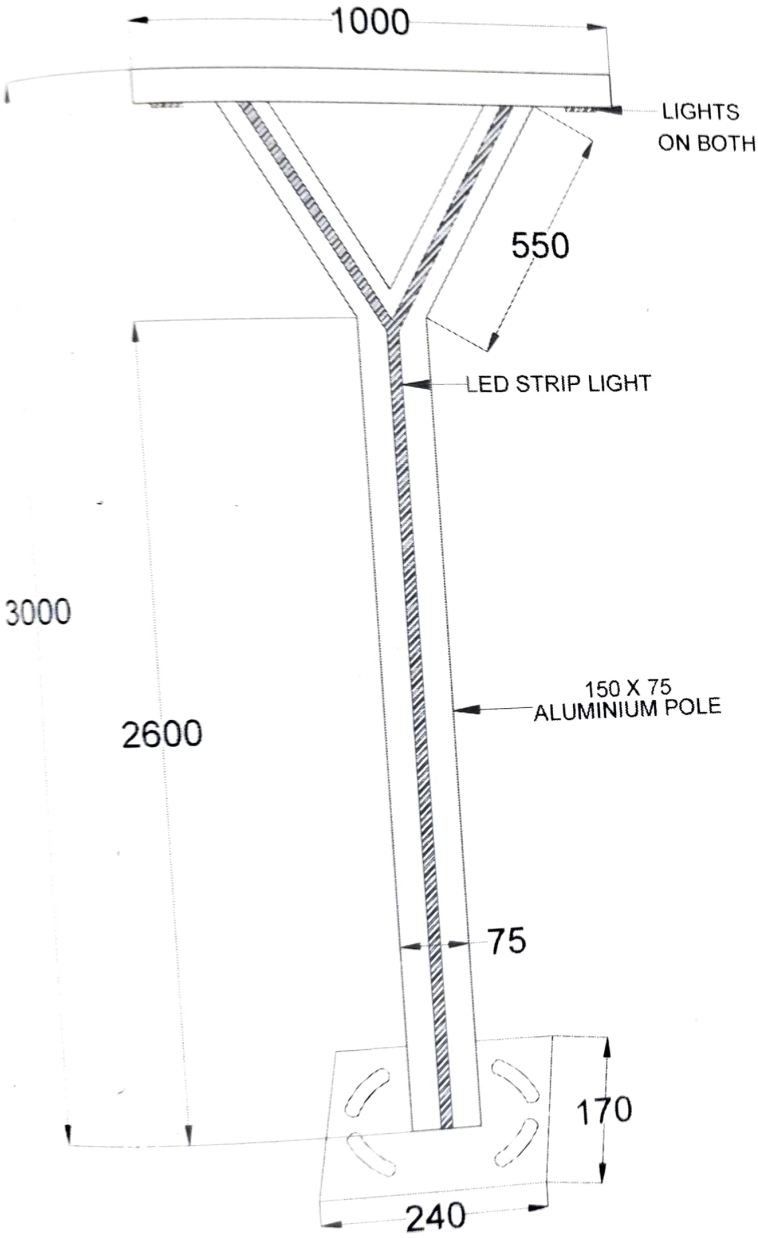
MANUFACTURER	EMERALD LIGHTING SOLUTION
CLIENT	
PROJECT	
TITLE	
DRAWING NO	

	NAME	SIGN	DATE
DSNG			
DRAWN			
CHKD			
APPRD			

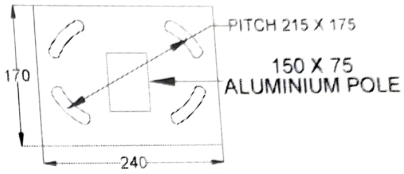
NOTES:
1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

TITLE : TRIYO 3 MTR POLE



BASE PLATE 240 X 170 X 12



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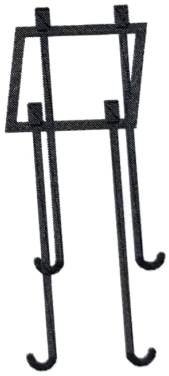
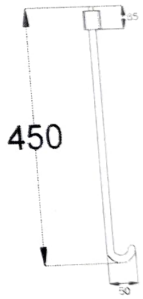


FOUNDATION BOLT M16X450



MANUFACTURER	EMERALD LIGHTING SOLUTION			
CLIENT				
PROJECT				
TITLE				
DRAWING NO				
	NAME	SIGN	DATE	
DSNG				
DRAWN				
CHKD				
APPRD				

NOTES -
1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

EAMP Laboratories

Electrical, Analytical, Mechanical & Photometry Laboratories

Survey No.102/1/2, Nagar Parishad House, Opp. ISKCON Food Relief Foundation,
Near Sukhsagar Lane, Mahim Road, Palghar (W) 401 404
Tel. 02525 240120, GSTIN: 27AAIFE5930B1ZP

Test Report No.: 210929020353

TestReport

Test Report No.	210929020353	**Receipt Date**	29.09.2021
Report Date	08.10.2021	**Test Date**	29.09.2021
Customer Name	Panasonic Life Solutions India Pvt. Ltd.	**Manufacturer**	Brand-Panasonic
Test Standard	LM 79-08, Clause 9,10,11&12		
Customer Address	3rd Floor, B-Wing, I-Think Techno Campus, Pokharan Road No. 2, Thane (W) 400607.		
Sample Description	LED Street Light 90W, PSTM22908R2, E0E0, BRLX, AH x 1		

Master Equipment and Calibration Details:

S No.	Test Equipment	Lab ID	Model No.	Cal. Due Date
1	Moving Mirror Goniophotometer	EAMP-E-010	GMS 3000	20.06.2022
2	Standard Lamp	EAMP-SL-002	Wi41/G	15.06.2022
3	Spectroradiometer with Integrating Sphere	EAMP-E-006	SL 300	20.06.2022
4	Standard Lamp	EAMP-SL-001	3080723	15.06.2022

S. No.	Test Conducted	Requirements as per Customer		Test Results
		Parameter (Unit)	Given	
1.	Electrical & Photometric Parameters (As per LM 79-08, Clause 9,10 & 11)	Voltage (V)	240Vac	240.40Vac
		Current (A)	--	0.355A
		Power (W)	90W	84.70W
		Power Factor		0.9919
		Frequency (Hz)	50Hz	50Hz
		Luminous Flux (lm)		11383.33lm
		Luminous Efficacy (lm/W)		134.40lm/W
		Beam Angle (Degree)		133.25°
2.	Colorimetric Parameters (As per LM 79-08, Clause 12)	Correlated Color Temperature (K)		5556K
		Color Rendering Index (Ra)		72.6
		Chromaticity Coordinate	x	0.3312
			y	0.3446

Light Source		Driver / Ballast	
Make/Specifications	Quantity	Make/Specifications	Quantity
--	--	--	--

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byataravanapura, Bangalore-92

Quality Manager
Approved By

EAMP Laboratories

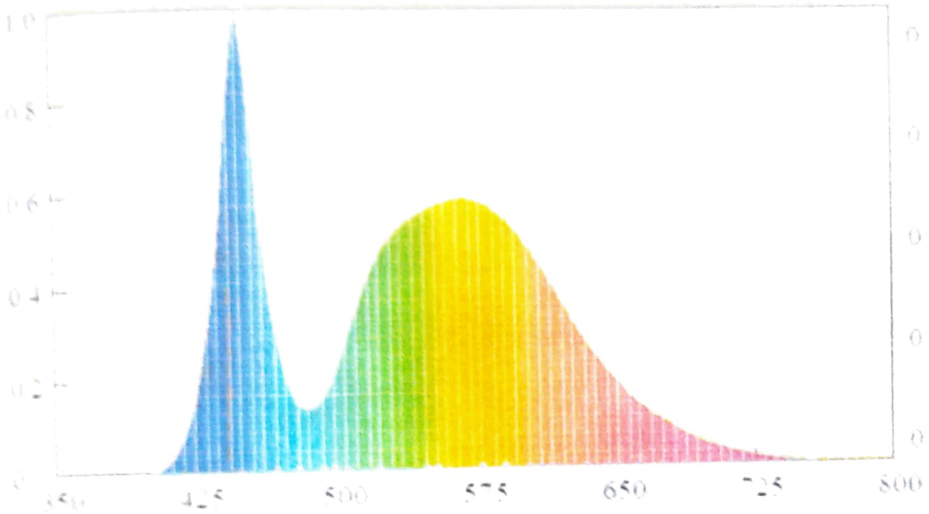
Electrical, Analytical, Mechanical & Photometry Laboratories

Survey No.102/1/2, Nagar Parishad House, Opp. ISKCON Food Relief Foundation,
Near Sukhsagar Lane, Mahim Road, Palghar (W) 401 404
Tel. 02525 240120, GSTIN: 27AAIFE5930B1ZP

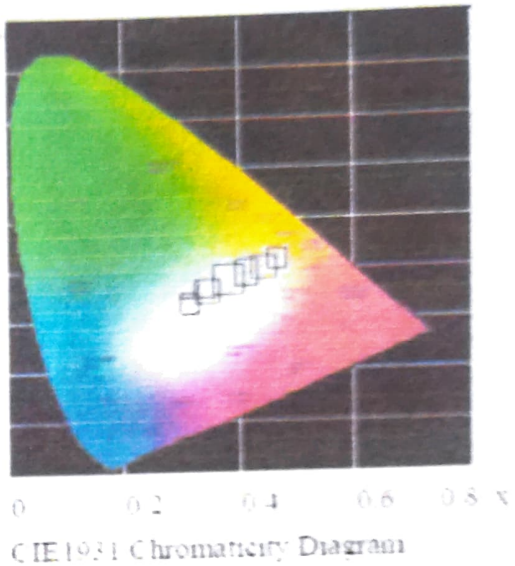
Test Report No.: 210929020353

Colorimetric graph

Spectroradiometric Parameters

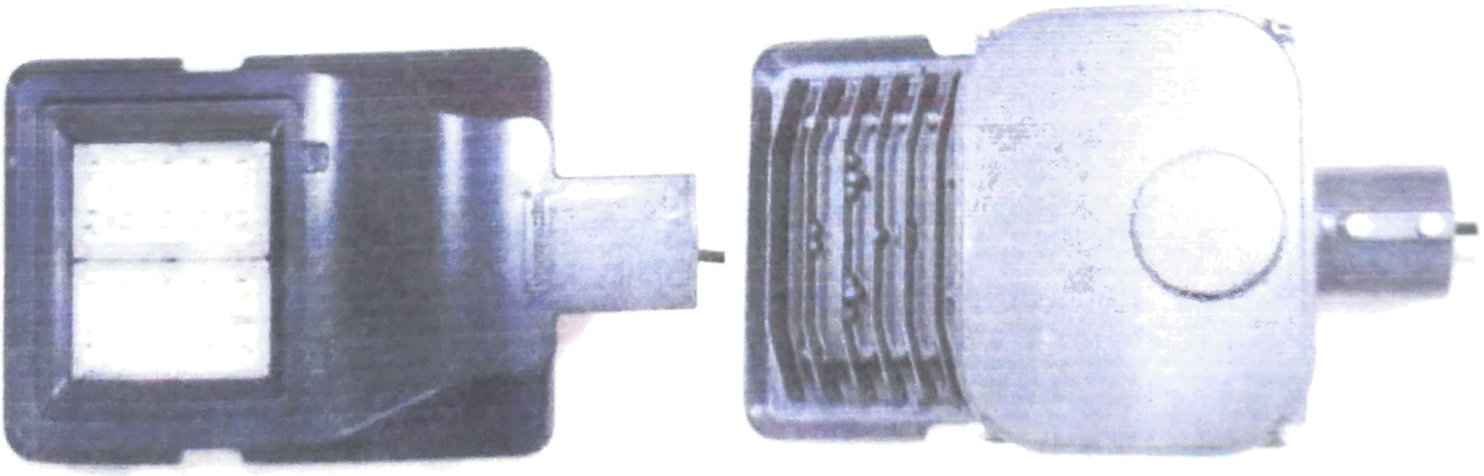


Spectral Distribution



CIE1931 Chromaticity Diagram

Photograph:



****End of Report****

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

Mr. [illegible]
Quality Manager
Approved By